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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,616	03/08/2002	Takahiro Naka	Q68810	8662
7590	07/09/2004		EXAMINER	
SUGHRUE MION, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213				TRAN, LY T
		ART UNIT		PAPER NUMBER
		2853		

DATE MAILED: 07/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/092,616	NAKA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Ly T TRAN	2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 24 May 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1,3,5-7,21 and 26-28 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,3,5-7,21 and 26-28 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____ .  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____.  | 6) <input type="checkbox"/> Other: _____ .                                  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 3, 5-7, 21 and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanabusa et al (USPN 6,227,642) in view of Narushima et al (USPN 5,823,690).

With respect to claims 1, 21 and 28, Hanabusa et al. discloses a coloring agent amount recording apparatus comprising:

- An information obtaining portion obtaining information on an amount of the printing coloring agent that is consumed, wherein the amount was not used in actual printing or wherein the amount was used when maintenance of a printing mechanism is carried out (Column 7: line 35-37)
- An information writing portion writing onto a recording medium the information on the amount obtained by the information obtaining portion (Column 7: line 37-40).

With respect to claim 3, Hanabusa et al. discloses the printing coloring agent is ink (column 5: line 16-22).

With respect to claim 5, Hanabusa et al. discloses the amount not used in actual printing includes an amount of the printing coloring agent used when maintenance of a printing mechanism is carried out (Column 7: line 51-59).

With respect to claims 6, Hanabusa et al discloses that wherein the an information obtaining portion obtaining information on an amount not used in actual printing for each of the colors of the printing agent and information writing portion writes onto the recording medium the information of each of the colors obtained by the information obtaining portion (Column 14: line 19-67, Column 15; line 1-43).

With respect to claim 7, Hanabusa et al. discloses the apparatus being a part of a printing apparatus carrying out printing with the printing color agent (Column 5: line 13-58).

With respect to claims 26 and 27, Hanabusa et al. discloses a printer comprising at least one coloring agent amount recording apparatus (Column 5: line 15-21).

Hanabusa et al. disclose the claimed invention except that the recording medium is attached to the printer instead of the cartridge. Narushima et al shows that the memory/recording medium is attached to the printer or to the cartridge is an equivalent structure known in the art (Column 15: line 65-67). Therefore, because these the memory attached to the printer or the cartridge were art recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute to attach the memory to the cartridge for attach to the printer for the same purpose such as to retain information.

***Response to Arguments***

2. Applicant's arguments with respect to claims 1, 3, 5-7, 21, 26 -28 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

July 1, 2004



Stephen D. Meier  
Primary Examiner